Linfei Lai

List of Publications by Year in Descending Order

62 papers	6,928 citations	37 h-index	65 g-index
65 ext. papers	7,715 ext. citations	11.5 avg, IF	5.71 L-index

#	Paper	IF	Citations
62	Structural engineering of V2O5 nanobelts for flexible supercapacitors. *Materials Letters*, **2022**, 320, 132391	3.1	1
61	Amorphous Carbon Interweaved Mesoporous All-carbon Electrode for Wide-Temperature Range Supercapacitors. *Electrochimica Acta*, **2022**, 140622	6.7	0
60	Atomic-level tungsten doping triggered low overpotential for electrocatalytic water splitting. *Journal of Colloid and Interface Science*, **2021**, 587, 581-589	9.3	1
59	Catalysts confined inside CNTs derived from 2D metal-organic frameworks for electrolysis. *Nanoscale*, **2020**, 12, 8969-8974	7.7	16
58	Stacking faults triggered strain engineering of ZIF-67 derived Ni-Co bimetal phosphide for enhanced overall water splitting. *Applied Catalysis B: Environmental*, **2020**, 272, 118951	21.8	41
57	A TiS/Celgard separator as an efficient polysulfide shuttling inhibitor for high-performance lithium-sulfur batteries. *Nanoscale*, **2020**, 12, 24368-24375	7.7	9
56	Sb2S3 nanocrystals embedded in multichannel N-doped carbon nanofiber for ultralong cycle life sodium-ion batteries. *Materials Chemistry and Physics*, **2020**, 240, 122139	4.4	22
55	Tailored synthesis of Zn-N co-doped porous MoC nanosheets towards efficient hydrogen evolution. *Nanoscale*, **2019**, 11, 1700-1709	7.7	29
54	Durable Freestanding Hierarchical Porous Electrode for Rechargeable Zinc–Air Batteries. *ACS Applied Energy Materials*, **2019**, 2, 1505-1516	6.1	10
53	Aging mechanism of MoS2 nanosheets confined in N-doped mesoporous carbon spheres for sodium-ion batteries. *Nano Energy*, **2019**, 62, 299-309	17.1	73
52	Selection of graphene dopants for Na3V2(PO4)3 graphene composite as high rate, ultra long-life sodium-ion battery cathodes. *Electrochimica Acta*, **2019**, 306, 558-567	6.7	19
51	CoP@N,P-Codoped Carbon Nanofiber as a Free-Standing Air Electrode for Zn-Air Batteries: Synergy Effects of CoN Satellite Shells. *ACS Applied Materials & Interfaces*, **2019**, 11, 10364-10372	9.5	51
50	3D urchin-like architectures assembled by MnS nanorods encapsulated in N-doped carbon tubes for superior lithium storage capability. *Chemical Engineering Journal*, **2019**, 355, 752-759	14.7	49
49	Synthesis of Mesoporous TiO-B Nanobelts with Highly Crystalized Walls toward Efficient H Evolution. *Nanomaterials*, **2019**, 9,	5.4	6
48	One-Step Synthesis of Monodispersed Mesoporous Carbon Nanospheres for High-Performance Flexible Quasi-Solid-State Micro-Supercapacitors. *Small*, **2019**, 15, e1903836	11	25
47	2020 roadmap on two-dimensional materials for energy storage and conversion. *Chinese Chemical Letters*, **2019**, 30, 2053-2064	8.1	108
46	A cathode for Li-ion batteries made of vanadium oxide on vertically aligned carbon nanotube arrays/graphene foam. *Chemical Engineering Journal*, **2019**, 359, 1668-1676	14.7	16

45	N, P Co-doped Hierarchical Porous Graphene as a Metal-Free Bifunctional Air Cathode for Zn–Air Batteries. *ChemElectroChem*, **2018**, 5, 1811-1816	4.3	15
44	One-step coaxial electrodeposition of Co0.85Se on CoNi2S4 nanotube arrays for flexible solid-state asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 15630-15639	13	39
43	Recent progress in hierarchically structured O2-cathodes for Li-O2 batteries. *Chemical Engineering Journal*, **2018**, 352, 972-995	14.7	39
42	Electrochemically Synthesis of Nickel Cobalt Sulfide for High-Performance Flexible Asymmetric Supercapacitors. *Advanced Science*, **2018**, 5, 1700375	13.6	115
41	Micro-supercapacitors based on oriented coordination polymer thin films for AC line-filtering.. *RSC Advances*, **2018**, 8, 30624-30628	3.7	9
40	Free-standing vertically-aligned nitrogen-doped carbon nanotube arrays/graphene as air-breathing electrodes for rechargeable zinc–air batteries. *Journal of Materials Chemistry A*, **2017**, 5, 2488-2495	13	71
39	Interdiffusion Reaction-Assisted Hybridization of Two-Dimensional Metal-Organic Frameworks and TiCT Nanosheets for Electrocatalytic Oxygen Evolution. *ACS Nano*, **2017**, 11, 5800-5807	16.7	388
38	Sub-micron silicon/pyrolyzed carbon@natural graphite self-assembly composite anode material for lithium-ion batteries. *Chemical Engineering Journal*, **2017**, 313, 187-196	14.7	49
37	V2O5 embedded in vertically aligned carbon nanotube arrays as free-standing electrodes for flexible supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 23727-23736	13	58
36	A free-standing electrochemical sensor based on graphene foam-carbon nanotube composite coupled with gold nanoparticles and its sensing application for electrochemical determination of dopamine and uric acid. *Journal of Electroanalytical Chemistry*, **2017**, 801, 129-134	4.1	37
35	Recent advances in air electrodes for Zn–air batteries: electrocatalysis and structural design. *Materials Horizons*, **2017**, 4, 945-976	14.4	174
34	Two-dimensional porous SiO2 nanomesh supported high dispersed Ni nanoparticles for CO methanation. *Chemical Engineering Journal*, **2017**, 326, 774-780	14.7	23
33	A free-standing Li4Ti5O12/graphene foam composite as anode material for Li-ion hybrid supercapacitor. *Electrochimica Acta*, **2017**, 258, 1311-1319	6.7	45
32	Graphene and graphene-based composites as Li-ion battery electrode materials and their application in full cells. *Journal of Materials Chemistry A*, **2017**, 5, 15423-15446	13	133
31	Fabrication of ultra-sensitive and selective dopamine electrochemical sensor based on molecularly imprinted polymer modified graphene@carbon nanotube foam. *Electrochemistry Communications*, **2016**, 64, 42-45	5.1	57
30	Hierarchical MnO2/rGO hybrid nanosheets as an efficient electrocatalyst for the oxygen reduction reaction. *International Journal of Hydrogen Energy*, **2016**, 41, 5260-5268	6.7	38
29	Graphene-supported non-precious metal electrocatalysts for oxygen reduction reactions: the active center and catalytic mechanism. *Journal of Materials Chemistry A*, **2016**, 4, 7148-7154	13	13
28	Tailoring the Electrode Interface with Enhanced Electron Transfer for High-Rate Lithium-Ion Battery Anodes. *Industrial & Engineering Chemistry Research*, **2016**, 55, 6643-6648	3.9	3

27	MoS2 architectures supported on graphene foam/carbon nanotube hybrid films: highly integrated frameworks with ideal contact for superior lithium storage. *Journal of Materials Chemistry A*, **2015**, 3, 17534-17543	13	47
26	In Situ Activation of Nitrogen-Doped Graphene Anchored on Graphite Foam for a High-Capacity Anode. *ACS Nano*, **2015**, 9, 8609-16	16.7	103
25	Binary metal sulfides and polypyrrole on vertically aligned carbon nanotube arrays/carbon fiber paper as high-performance electrodes. *Journal of Materials Chemistry A*, **2015**, 3, 22043-22052	13	33
24	High Electrochemical Performance of LiFePO4 Cathode Material via In-Situ Microwave Exfoliated Graphene Oxide. *Electrochimica Acta*, **2015**, 151, 240-248	6.7	35
23	High-performance asymmetric pseudocapacitor cell based on cobalt hydroxide/graphene and polypyrrole/graphene electrodes. *Journal of Power Sources*, **2015**, 275, 298-304	8.9	76
22	Nanoarrays: design, preparation and supercapacitor applications. *RSC Advances*, **2015**, 5, 55856-55869	3.7	53
21	Ni3S2@MoS2 core/shell nanorod arrays on Ni foam for high-performance electrochemical energy storage. *Nano Energy*, **2014**, 7, 151-160	17.1	214
20	One novel and universal method to prepare transition metal nitrides doped graphene anodes for Li-ion battery. *Electrochimica Acta*, **2014**, 134, 28-34	6.7	33
19	Co3O4/nitrogen modified graphene electrode as Li-ion battery anode with high reversible capacity and improved initial cycle performance. *Nano Energy*, **2014**, 3, 134-143	17.1	67
18	Three dimensionals Fe2O3/polypyrrole (Ppy) nanoarray as anode for micro lithium ion batteries. *Nano Energy*, **2013**, 2, 726-732	17.1	88
17	Pt-WxC nano-composites as an efficient electrochemical catalyst for oxygen reduction reaction. *Nano Energy*, **2013**, 2, 28-39	17.1	51
16	Improved synthesis of graphene flakes from the multiple electrochemical exfoliation of graphite rod. *Nano Energy*, **2013**, 2, 377-386	17.1	174
15	Repeated microwave-assisted exfoliation of expandable graphite for the preparation of large scale and high quality multi-layer graphene. *RSC Advances*, **2013**, 3, 11601	3.7	30
14	Highly active non-precious metal catalyst based on poly(vinylpyrrolidone) wrapped carbon nanotubes complexed with iron cobalt metal ions for oxygen reduction reaction. *Journal of Power Sources*, **2012**, 214, 15-20	8.9	33
13	Tuning graphene surface chemistry to prepare graphene/polypyrrole supercapacitors with improved performance. *Nano Energy*, **2012**, 1, 723-731	17.1	67
12	Nitrogen doping of graphene and its effect on quantum capacitance, and a new insight on the enhanced capacitance of N-doped carbon. *Energy and Environmental Science*, **2012**, 5, 9618	35.4	307
11	Carbon Nanotube-Based Materials for Fuel Cell Applications. *Australian Journal of Chemistry*, **2012**, 65, 1213	1.2	28
10	Exploration of the active center structure of nitrogen-doped graphene-based catalysts for oxygen reduction reaction. *Energy and Environmental Science*, **2012**, 5, 7936	35.4	1813

9	Preparation of supercapacitor electrodes through selection of graphene surface functionalities. *ACS Nano*, **2012**, 6, 5941-51	16.7	279
8	Engineering the electronic structure of graphene. *Advanced Materials*, **2012**, 24, 4055-69	24	99
7	Pyridinic N doped graphene: synthesis, electronic structure, and electrocatalytic property. *Journal of Materials Chemistry*, **2011**, 21, 8038		795
6	Influences of graphene oxide support on the electrochemical performances of graphene oxide-MnO2 nanocomposites. *Nanoscale Research Letters*, **2011**, 6, 531	5	89
5	Electronic structure of graphite oxide and thermally reduced graphite oxide. *Carbon*, **2011**, 49, 1362-1366	10.4	187
4	Preparation of Pt nanoparticle-loaded three-dimensional Fe3O4/carbon with high electro-oxidation activity. *Carbon*, **2011**, 49, 1581-1587	10.4	25
3	One-step synthesis of NH2-graphene from in situ graphene-oxide reduction and its improved electrochemical properties. *Carbon*, **2011**, 49, 3250-3257	10.4	322
2	Solvothermal syntheses of hollow carbon microspheres modified with NH2 and OH groups in one-step process. *Carbon*, **2010**, 48, 3145-3156	10.4	72
1	Syntheses, Properties and Electrochemical Activity of Carbon Microtubes Modified with Amino Groups. *Advanced Functional Materials*, **2008**, 18, 1809-1823	15.6	23